

SCECAP 2003-2004

Water, sediment, and biological cut points

These are the old threshold values. Please see 2005-2006 table for new thresholds.

Parameter	Criteria	Percent of Tidal Creek Habitat			Percent of Open Water Habitat		
		Lower CL	Percent	Upper CL	Lower CL	Percent	Upper CL
WATER QUALITY							
Salinity -- ppt (25 Hr mean - bottom)	≤ 5	4	12	21	1	8	15
	≤ 18	17	29	40	17	28	40
	≤ 30	55	67	79	58	70	82
	> 30	--	33	--	--	30	--
Dissolved Oxygen -- mg/l (25 Hr mean - bottom)	< 3	0	2	6	0	3	8
	< 4	6	15	24	2	10	18
	< 5	47	59	72	26	39	51
	≥ 5	--	41	--	--	61	--
Dissolved Oxygen -- mg/l (Instantaneous Bottom)	< 3	6	15	25	0	3	7
	< 4	42	55	68	12	22	33
	< 5	80	88	97	58	70	82
	≥ 5	--	12	--	--	30	--
Dissolved Oxygen -- mg/l (Instantaneous - surface)	< 3	4	12	20	--	0	--
	< 4	39	51	64	4	12	21
	< 5	77	86	95	47	59	71
	≥ 5	--	14	--	--	41	--
pH (polyhaline stations only) (25 Hr mean - bottom) Percentage of polyhaline stations	< 7.1		2			0	
	≥7.1 & < 7.4		19			7	
	≥7.4		79			93	
Total Kjeldahl Nitrogen mg/l	≤ 0.81	65	76	87	68	79	90
	≤ 1.06	88	94	100	90	96	100
	> 1.06	--	6	--	--	4	--
Nitrate / Nitrite mg/l	≤ 0.14	93	97	100	85	92	99
	≤ 0.23	--	100	--	98	99	100
	> 0.23	--	0	--	--	1	--

Total Nitrogen (TKN + NOx - mg/l)	≤ 0.95	78	87	96	73	83	93
	≤ 1.29	91	96	100	92	97	100
	> 1.29	--	4	--	--	3	--
Total Dissolved Nitrogen mg/l	<0.1	--	0	--	--	0	--
	< 1.0	7	17	27	23	34	44
	≥1.0	--	83	--	--	0	--
Dissolved Inorganic Nitrogen mg/l	<0.1	53	65	77	44	55	66
	≤ 0.5	39	56	64	27	38	48
	>0.5	--	44	--	--	62	--
Ammonia Nitrogen mg/l	≤ 0.28	91	96	99	87	94	99
	≤ 0.48	98	99	100	56	99	100
	≤ 0.60	--	100	--	--	100	--
	> 0.60	--	0	--	--	0	--
Total Phosphorus mg/l	≤ 0.09	35	47	60	62	73	85
	≤ 0.17	92	97	100	93	97	100
	> 0.17	--	3	--	--	3	--
Total Dissolved Phosphorus mg/l	<0.01	0	4	10	0	3	7
	< 0.10	91	96	100	95	98	100
	≥0.10	--	4	--	--	2	--
Dissolved Inorganic Phosphorus mg/l	<0.01	2	9	17	8	16	24
	≤ 0.05	31	44	57	46	56	67
	≥0.05	--	56	--	--	44	--
BOD ₅ mg/l	≤ 1.8	62	73	84	99	100	100
	≤ 2.6	90	95	100	--	--	--
	> 2.6	--	5	--	--	--	--
Total Organic Carbon mg/l	≤ 11	45	58	70	64	75	86
	≤ 16	69	79	90	92	97	100
	> 16	--	21	--	--	3	--

SEDIMENT QUALITY	Fecal Coliform colonies / 100ml	≤ 43	68	78	88	79	88	96
		≤ 400	88	94	100	--	100	--
		> 400	--	6	--	--	0	--
	Alkalinity mg/l	≤ 98	34	46	59	40	52	65
		≤ 110	55	67	79	82	90	98
		≤ 114	66	76	86	88	93	99
		≤ 125	89	94	99	98	99	100
		> 125	--	6	--	--	1	--
	Turbidity NTU	≤ 15	24	36	48	61	72	84
		≤ 25	59	71	82	86	93	99
		> 25	--	29	--	--	7	--
	WQ Score (with nutr)	≤ 1	0	3	8	0	0	0
		≤ 3	11	25	32	5	13	22
		> 3	64	75	86	78	87	95
	SEDIMENT QUALITY	Sediment Composition Percent Silt Clay	<20	30	42	55	57	69
≤ 80			87	93	100	96	98	100
>80			--	7	--	--	2	--
TOC		< 0.05	0	3	8	5	14	22
		≤ 3	80	88	97	87	94	100
		>3	--	12	--	--	6	--
Porewater Ammonia mg/l		≤ 14	93	97	100	89	95	100
		≤ 30	--	100	--	--	100	--
		>30	--	0	--	--	0	--
Contaminants ERMQ	≤ 0.020	59	70	82	68	78	89	
	≤ 0.058	--	100	--	97	99	100	
	> 0.058	--	0	--	--	1	--	

Toxicity	None		23	35	47		34	47	59	
	1 of 3		46	58	71		32	45	58	
	≥2 of 3		--	7	13		1	8	15	
	Integrated Sediment Score	≤ 1		--	0	--		0	0	0
		≤ 3		17	28	40		14	25	36
		> 3		60	72	83		64	75	86
BIOLOGY										
Chlorophyll A µg/l	≤ 12		51	64	76		82	89	97	
	≤ 20		81	89	97		96	99	100	
	> 20		--	11	--		--	1	--	
Benthic IBI	≤ 1.5		1	8	16		1	8	16	
	≤ 2.5		17	29	40		18	30	42	
	> 2.5		--	71	--		--	70	--	
Overall Integrated Measure Habitat Quality Score	≤ 2.3		0	3	8		0	2	5	
	≤ 3.7		13	23	34		10	20	30	
	> 3.7		--	77	--		--	80	--	